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1		DIRECT TESTIMONY AND EXHIBITS OF
2		DANIEL F. SULLIVAN
3		ON BEHALF OF
4		THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF
5		DOCKET NO. 2019-4-G
6		IN RE: ANNUAL REVIEW OF PURCHASED GAS ADJUSTMENT AND GAS
7		PURCHASING POLICIES OF PIEDMONT NATURAL GAS COMPANY,
8		INC.
9		
10	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND OCCUPATION.
11	A.	My name is Daniel F. Sullivan. My business address is 1401 Main Street, Suite
12		900, Columbia, South Carolina, 29201. I am employed by the South Carolina Office of
13		Regulatory Staff ("ORS") as the Deputy Director of the Audit Department.
14	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.
15	A.	I received a Bachelor of Science Degree in Business Administration with a major
16		in Accounting from the University of South Carolina in December 1998. In February 2005,
17		I began my employment with ORS and since have participated in cases dealing with the
18		regulation of telecommunications, natural gas, electric, radioactive waste disposal, water
19		and wastewater utilities.
20	Q.	HAVE YOU TESTIFIED PREVIOUSLY BEFORE THE PUBLIC SERVICE
21		COMMISSION OF SOUTH CAROLINA ("COMMISSION")?
22	A.	Yes.
23	Q.	WHAT IS THE MISSION OF THE OFFICE OF REGULATORY STAFF?

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1	Α.	ORS represents the public interest as defined by the South Carolina General
2		Assembly as:
3 4 5 6		The concerns of the using and consuming public with respect to public utility services, regardless of the class of customer, and preservation of continued investment in and maintenance of utility facilities so as to provide reliable and high-quality utility services.
7	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?
8	A.	The purpose of my testimony is to set forth findings resulting from ORS's
9		examination of Piedmont Natural Gas Company, Inc.'s ("Company" or "Piedmont")
10		purchased gas deferred account, storage inventory activity, and hedging account activity,
11		for the period April 2018 through March 2019 ("review period").
12	Q.	IN CONNECTION WITH YOUR TESTIMONY, DID YOU PREPARE OR CAUSE
13		TO BE PREPARED ANY EXHIBITS?
14	A.	Yes, the Audit Department prepared Audit Exhibit DFS-1, titled "Purchased Gas
15		Deferred Account Analysis Summary," Audit Exhibit DFS-2, titled "Storage Inventory
16		Activity," and Audit Exhibit DFS-3, titled "Hedging Account Activity," in connection with
17		this testimony. These exhibits were prepared by me or under my direction and supervision.
18	Q.	UNDER WHAT AUTHORITY DOES ORS MONITOR THE ACTIVITY IN
19		PIEDMONT'S PURCHASED GAS DEFERRED ACCOUNT?
20	A.	In Order No. 88-294, the Commission found that:
21		(1) A true-up for differences between billed and filed rates is appropriate and necessary
22		to ensure that Piedmont's customers pay no more than Piedmont's actual cost of
23		gas.

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16 Q. WHAT IS INCLUDED IN AUDIT EXHIBIT DFS-1, PURCHASED GAS
17 DEFERRED ACCOUNT ANALYSIS SUMMARY?

A. Audit Exhibit DFS-1 presents, for each month of the review period under examination, the components which comprise the Company's (over)/under collection in the purchased gas deferred account. These components are:

<u>Commodity True-Up</u> – These amounts represent the difference in the Company's actual gas costs on a monthly basis as compared to the benchmark cost of gas included in the Company's Gas Cost Recovery Mechanism ("GCRM") filings during the review period.

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Piedmont Natural Gas Company, Inc.

The Company's benchmark cost of gas at the beginning of the review period was \$2.75 per dekatherm, established as a result of the Company filing GCRM #145, effective the first billing cycle in February 2018. The Company's benchmark cost of gas at the end of the review period was also \$2.75 per dekatherm, established as a result of the Company filing GCRM #149, effective the first billing cycle in March 2019. In accordance with Commission Order No. 2010-250 dated March 30, 2010, the Company includes unbilled volumes in its commodity true-up calculations in order to achieve a better matching of gas cost collections versus actual gas costs in the months they occur. South Carolina's portion of commodity true-up for the review period decreased the over-collection by \$244,854. **Demand True-Up** – These amounts represent the (over)/under collection of demand charges incurred by the Company as compared to demand charges billed and collected from customers. In accordance with Commission Order No. 2010-250, the Company includes unbilled volumes in its demand true-up calculations in order to achieve a better matching of gas cost collections versus actual gas costs in the months they occur. The design day factor for allocation of demand charges to South Carolina is 14.92%, effective January 1, 2014, due to North Carolina Utilities Commission ("NCUC") Docket No. G-9 Sub 631, Order dated December 17, 2013. The methodology used to calculate the design day factor for demand allocation of 14.92% is in compliance with Commission Order No. 2004-501, dated October 15, 2004. Demand true-up for the review period decreased the over-collection by \$819,463. Negotiated Losses – In competition with alternate fuels, the Company's GCRM allows it to maintain its industrial load by selling gas at less than the approved tariff, resulting in

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1 margin losses. During the review period there were no negotiated losses, so there was no 2 effect on the Company's (over)/under-collection. 3 **Secondary Market Sharing** – Effective with rates approved in Commission Order No. 4 2002-761 dated November 1, 2002, the Company credited 75% of the margin from off-5 system sales and capacity release transactions to the purchased gas deferred account. The remaining 25% was retained by the Company. Additionally, the Order provided that 6 7 capacity release credits and off-system sales would be allocated to South Carolina using the same design day methodology approved for fixed demand costs. 8 9 In accordance with NCUC's Order in Docket No. G-9 Sub 682, dated September 29, 2016, 10 Approving Merger Subject to Regulatory Conditions and Code of Conduct regarding the merger of Piedmont and Duke Energy, 100% of margins received by Piedmont from 11 12 secondary market sales to Duke Energy Carolinas, LLC and Duke Energy Progress, LLC 13 are now credited to the purchased gas deferred gas accounts for the benefit of the 14 ratepayers. 15 Shared margins and capacity release credits for the review period increased the over-16 collection by \$4,047,972. It should be noted that in compliance with Commission Order 17 No. 95-1461 dated August 22, 1995, the Company is properly reporting capacity release 18 activity. These capacity release credits totaling \$2,666,537 are included in the total of 19 \$4,047,972 listed above for secondary market sharing. 20 Weather Normalization – In compliance with Commission Order No. 95-1649 dated 21 November 7, 1995, the Company began recording in the purchased gas deferred account 22 weather normalization effective for the winter heating season of November through March. 23 The weather normalization adjustment is designed to increase or decrease the margin

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Piedmont Natural Gas Company, Inc.

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component of the rate based on a comparison of actual weather conditions during the period, to normal weather conditions. Weather normalization adjustments for the review period increased the over-collection by \$2,015 as a result of colder than normal weather for the 2018-2019 heating season. Uncollectibles – In Order No. 2006-527 dated October 11, 2006, the Commission approved the Company's request to remove uncollectible gas cost expense from its cost of service and authorized the recovery of these costs through the Company's purchased gas deferred account. Under this revised methodology, the commodity cost of gas portion of uncollectible accounts is now a component of the purchased gas deferred account. The balance of the uncollectible accounts expensed, including the Company's margin, will be recovered through its annual Rate Stabilization Act filing. The uncollectible gas cost adjustment decreased the over-collection during the review period by \$361,052. <u>Supplier Refunds</u> – The Company received supplier refunds totaling \$733,027 during the review period. South Carolina's allocation of these refunds increased the over-collection by \$107,207. **Hedging Activity Transfer** – In Order No. 2006-527, the Commission authorized the Company to transfer the balance of its cumulative hedging gains or losses to the purchased gas deferred account on a monthly basis, effective November 1, 2006. Transfer of the monthly hedging gains and losses to the purchased gas deferred account for the review period decreased the over-collection by \$134,016. Other Adjustments – In December 2018, the Company made an adjusting entry to record \$1,368 of additional interest associated with the period January 2018 – December 2018,

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Piedmont Natural Gas Company, Inc.

for January 2018 and February 2018 supplier invoice adjustments. This adjustment decreased the over-collection by \$1,368.

Interest – In Order No. 2009-579, the Commission ordered that, effective September 1, 2009, the interest rate to calculate (over)/under collection balances to be the rate of interest as of the first day of each month for 10-year United States Government Treasury Bills, plus an all-in spread of 65 basis points (.65 percentage points). It also ordered that interest not be accrued on (over)/under collection balances which exceed \$20 million in the purchased gas deferred account. Total accrued interest for the review period decreased the overcollection by \$8,785.

WHAT IS INCLUDED IN AUDIT EXHIBIT DFS-2, STORAGE INVENTORY Q. **ACTIVITY?**

During our examination, the Company provided ORS with detailed inventory calculations of its underground and liquefied natural gas ("LNG") storage facilities. ORS accumulated the various inventory levels by storage location in total, and included a summary of them in Audit Exhibit DFS-2, for Commission consideration.

The Company has contracted with six (6) underground storage facilities. Four (4) of these facilities are on the Transco System. They include General Storage Service and General Storage Service-Dominion located in Pennsylvania, Washington Storage Service located in Louisiana, and Eminence Storage Service located in Mississippi. The fifth and sixth underground storage facilities are on the Columbia Gas Transmission System. The fifth is Firm Storage Services, which is owned by Columbia Gas Transmission Corporation and operated by Columbia Gas Storage, with facilities in Pennsylvania, Virginia, and West Virginia. The sixth is Hardy Storage Company, located in West Virginia, which is jointly

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owned by Columbia Gas Transmission Corporation and Piedmont. Audit Exhibit DFS-2, "Total Underground" section, details the inventory activities of these underground facilities in total. The inventory located in the six (6) underground facilities at the beginning of the review period totaled 5,305,810 dekatherms at a total cost of \$16,280,204 for a weighted average cost of \$3.0684 per dekatherm. The net inventory decreased during the review period resulting in an ending inventory balance in the underground facilities of 5,190,365 dekatherms at a total cost of \$16,198,994 for a weighted average cost per dekatherm of \$3.1210. During its examination, ORS obtained verification from the storage facility operators of the volumes stored in each of these facilities at the close of the review period.

Audit Exhibit DFS-2 also contains a section titled "Total LNG" which is a summary of the various LNG inventories maintained by the Company, including Pine Needle. Pine Needle is a LNG facility located in Guilford County, North Carolina and is jointly owned by Piedmont, Transco and several other utilities and/or investors. Inventory is also stored at the Company's LNG facilities located at LNG-Huntersville near Charlotte, North Carolina and at LNG-Bentonville in Four Oaks, North Carolina. Piedmont also has inventory at the Transco LNG facility located in Carlstadt, New Jersey. Piedmont's records indicated LNG inventory located at these facilities at the beginning of the review period totaled 2,366,025 dekatherms at a total cost of \$8,061,817 for a weighted average cost of \$3.4073 per dekatherm. The net inventory decreased during the review period resulting in an ending LNG inventory balance for these four facilities of 1,491,126 dekatherms at a total cost of \$5,111,437 for a weighted average cost per dekatherm of \$3.4279. During its

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examination, ORS verified the calculation of ending inventory balances and the injections 2 and withdrawals to the daily storage activity worksheets for each facility.

3 Q. WHAT IS INCLUDED ON AUDIT EXHIBIT DFS-3, HEDGING ACCOUNT 4 **ACTIVITY?**

Audit Exhibit DFS-3 details the results of the Company's hedging program for the Α. review period. Commission Order No. 2002-223 approved the Company's experimental natural gas hedging program.

In Order No. 2006-527, effective November 1, 2006, the Commission authorized the Company to transfer the balance of its cumulative hedging gains or losses to the purchased gas deferred account on a monthly basis. Monthly net hedging gains or losses before interest were transferred to the purchased gas deferred account and included as part of the interest calculation. Total hedging activity for the review period resulted in a decrease in the over-collection in the purchased gas deferred account of \$134,016.

As indicated on Audit Exhibit DFS-3, the cumulative loss at the end of the review period for the hedging program is \$41,442,913.

WHAT ARE ORS'S FINDINGS REGARDING PIEDMONT'S PURCHASED GAS 16 Q. 17 **DEFERRED ACCOUNT?**

Based on our examination, it is the opinion of ORS that the over collection balance Α. in the purchased gas deferred account at March 31, 2019 of (\$2,885,925), shown on Company witness Tomlinson's Exhibit (MBT-1), is accurately stated.

WILL YOU UPDATE YOUR TESTIMONY BASED ON INFORMATION THAT 21 Q. **BECOMES AVAILABLE?** 22

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Piedmont Natural Gas Company, Inc.

June 14, 2019 Page 10

1 **A.** Yes. ORS fully reserves the right to revise its recommendations via supplemental testimony should new information not previously provided by the Company, or other sources, becomes available.

4 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

5 **A.** Yes, it does.

6

(1) - Variance from Exhibit_(MBT-1) of \$.97 is due to rounding

(\$2,885,924) (1)

Purchased Gas Deferred Account (Over)/Under-Collection as of 3/31/19

					2018						2019		
Month	April	May	June	July	August	September	October	November	December	January	February	March	Total
	\$ 9	€	\$	\$	\$	↔	\$	↔	\$ 9	€	\$	\$	\$ 9
Beginning Balance	(298,268)	(547,567)	(149,559)	(174,893)	791,285	1,443,375	2,317,594	3,052,886	2,522,484	1,349,889	(3,460,649)	(3,522,113)	
Commodity True-Up	(424,249)	(415,011)	(683,497)	(117,356)	(303,908)	(108,340)	216,299	1,121,262	2,214,989	(2,661,011)	725,790	679,886	244,854
Demand True-Up	233,555	768,856	781,061	1,147,968	993,362	1,060,211	662,798	(526,533)	(1,704,645)	(1,850,325)	(937,367)	3,481	819,463
Negotiated Losses	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary Market Sharing	(155,949)	(218,689)	(213,995)	(223,644)	(218,571)	(211,862)	(154,930)	(354,295)	(394,003)	(1,167,647)	(339,151)	(395,236)	(4,047,972)
Weather Normalization	142	88	(1,820)	9	25	(5)	2	(409,997)	(1,194,023)	888,181	443,454	271,932	(2,015)
Uncollectibles	38,830	68,549	60,399	81,714	67,331	29,006	943	(15,755)	(3,716)	1,020	14,426	18,305	361,052
Supplier Refunds	0	(26,551)	(2,944)	0	0	(1,373)	(31)	0	(5,064)	(71,244)	0	0	(107,207)
Hedging Activity Transfer	59,634	34,733	35,934	76,563	110,594	100,785	1,710	(353,580)	(92,873)	53,370	41,149	65,997	134,016
Other Adjustments	0	0	0	0	0	0	0	0	1,368	0	0	0	1,368
Ending Balance Before Interest	(546,305)	(148,551)	(174,421)	790,358	1,440,118	2,311,797	3,044,385	2,513,988	1,344,517	(3,457,767)	(3,512,348)	(2,877,748)	
Interest	(1,262)	(1,008)	(472)	927	3,257	5,797	8,501	8,496	5,372	(2,882)	(9,765)	(8,176)	8,785
Ending Balance	(547,567)	(149,559)	(174,893)	791,285	1,443,375	2,317,594	3,052,886	2,522,484	1,349,889	(3,460,649)	(3,522,113)	(2,885,924)	
Interest Rate	3.586%	3.474%	3.497%	3.614%	3.503%	3.705%	3.805%	3.663%	3.334%	3.281%	3.361%	3.066%	

PIEDMONT NATURAL GAS COMPANY, INC. DOCKET NO. 2019-4-G PURCHASED GAS DEFERRED ACCOUNT ANALYSIS SUMMARY FOR TWELVE MONTHS ENDED MARCH 31, 2019

																		Wtd. Cost	\$	3.4073	3.3777	3.3681	3.2894	3.2370	3.1987	3.1972	3.1996	3.2291	3.2711	3.3169	3.4671	
																	Fotal LNG Balance	Amount	\$	8,061,817	8,308,244	8,371,550	9,688,366	11,301,711	12,809,319	13,361,346	13,410,528	13,789,581	13,623,763	10,190,962	7,372,464	
	Wtd. Cost	\$	3.0684	3.0333	2.9719	2.9275	2.9112	2.8958	2.8919	2.9072	2.9458	2.9886	3.0260	3.0560	3.1210			DTs	#	2,366,025	2,459,753	2,485,530	2,945,373	3,491,418	4,004,482	4,179,029	4,191,302	4,270,460	4,164,944	3,072,417	2,126,405	
Balance	Amount	\$	16,280,204	17,256,411	20,103,652	26,804,033	36,421,191	41,730,580	45,878,069	50,461,890	50,754,080	46,189,188	31,931,681	24,303,726	16,198,994		its vel	Amount	S		0	0	0	0	0	0	0	0	83,916	0	0	
	DI's	#	5,305,810	5,689,018	6,764,627	9,155,974	12,510,529	14,410,598	15,864,407	17,357,461	17,229,054	15,455,384	10,552,462	7,952,906	5,190,365		Adjustments To Tank Level	DTs	#		0	0	0	0	0	0	0	0	22,618	0	0	
	Amount	∽		(1,153,948)	(530,018)	(205,399)	(881,919)	(417,176)	(612,561)	(1,232,805)	(2,990,531)	(6,467,821)	(15,148,597)	(8,411,914)	(8,210,024)	(46,262,713)		Amount	-		(93,418)	(101,968)	(170,142)	(252,866)	(191,509)	(112,166)	(110,501)	(276,545)	(566,144)	(3,561,144)	(2,863,514)	
	Price	59		2.8727	2.8533	2.7822	2.8001	2.8182	2.8243	2.8919	2.8769	2.9167	2.9287	2.9243	2.9335	2.9147		Price	\$		3.7666	3.7902	3.7140	3.7095	3.6516	3.6870	3.7203	3.4530	3.2182	3.1828	3.0269	
Withdrawais	DTs	#		(401,694)	(185,758)	(73,825)	(314,964)	(148,028)	(216,888)	(426,300)	(1,039,497)	(2,217,502)	(5,172,488)	(2,876,532)	(2,798,667)	(15,872,143)	Total LNG Withdrawals	DTs	#		(24,802)	(26,903)	(45,811)	(68,168)	(52,445)	(30,422)	(29,702)	(80,088)	(175,918)	(1,118,867)	(946,012)	
	W/D Charge	\$		0	0	0	0	0	0	0	0	0	0	0	0	0		W/D Chg/Exp Def	÷		30,704	30,377	96,391	177,282	151,067	87,848	31,794	68,026	113,950	39,979	45,016	
	Injection/Charge	\$		32,430	49,519	92,649	135,009	75,307	64,883	72,199	33,456	19,968	12,579	14,273	2,714	604,986		Injection/Charge	I		1,172	529	4,160	3,834	3,570	1,719	421	264	0	264	0	
	Commodity Ir	€9		2,097,725	3,327,740	6,813,131	10,364,068	5,651,258	4,695,167	5,744,427	3,249,265	1,882,961	878,511	769,686	102,578	45,576,517		Commodity Ir	\$		307,969	134,368	1,386,407	1,685,095	1,544,480	574,626	127,468	587,308	202,460	88,100	0	
3	Price Cor	↔		2.6313	2.5900	2.7148	2.7717	2.7094	2.7619	2.9405	3.5170	4.1822	3.2170	2.7414	2.8072	2.8423	Total LNG Injections	Price (s		2.5542	2.4704	2.6802	2.6892	2.6764	2.7294	2.9411	3.6683	4.2370	3.2394	0.0000	
	Used/Injected	#		(12,322)	(23,467)	(44,437)	(69,756)	(37,728)	(29,306)	(34,207)	(12,794)	(6,398)	(3,518)	(3,786)	(415)	(278,134)		Used/Injected	#		(2,043)	(1,712)	(11,631)	(12,412)	(11,556)	(5,564)	(1,365)	(958)	0	(958)	0	
	Gross DTs	#		797,224	1,284,834	2,509,609	3,739,275	2,085,825	1,700,003	1,953,561	923,884	450,230	273,084	280,762	36,541	16,034,832		Gross DTs	#		120,573	54,392	517,285	626,625	577,065	210,533	43,340	160,102	47,784	27,196	0	
I	1		Beg. Bal.	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	I !		I	ı	Beg. Bal.	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	

PIEDMONT NATURAL GAS COMPANY, INC.
DOCKET NO. 2019-4-G
STORAGE INVENTORY ACTIVITY
FOR TWELVE MONTHS ENDED MARCH 31, 2019

Month	Net Options Premium	Purchased Options Fees	RMI Fee	Proceeds from Positions	Exercised Options Fees	Net (Gain) or Loss	Cumulative (Gain) or Loss
	\$	↔	\$	↔	\$	\$. ◆
Beginning Balance							41,308,897
Apr-18	62,280	930	558	(4,320)	186	59,634	41,368,531
May-18	41,410	635	558	(8,010)	140	34,733	41,403,264
Jun-18	34,880	496	558	0	0	35,934	41,439,198
Jul-18	75,090	915	558	0	0	76,563	41,515,761
Aug-18	108,920	1,116	558	0	0	110,594	41,626,355
Sep-18	98,910	1,317	558	0	0	100,785	41,727,140
Oct-18	57,220	791	558	(57,200)	341	1,710	41,728,850
Nov-18	40,320	558	558	(395,760)	744	(353,580)	41,375,270
Dec-18	32,800	434	558	(127,270)	909	(92,873)	41,282,397
Jan-19	52,130	682	558	0	0	53,370	41,335,767
Feb-19	40,080	511	558	0	0	41,149	41,376,916
Mar-19	64,540	668	558	0	0	766,59	41,442,913
	708,580	9,284	6,696	(592,560)	2,016	134,016	

PIEDMONT NATURAL GAS COMPANY, INC.
DOCKET NO. 2019-4-G
HEDGING ACCOUNT ACTIVITY
(GAIN)/LOSS RECOGNIZED AND OTHER EXPENSES
FOR TWELVE MONTHS ENDED MARCH 31, 2019